OPERATING NOTES

FOR

NOISE SOURCE

MODEL 125

WARNING

DO NOT OPERATE THIS SOURCE FROM A SUPPLY VOLTAGE HIGHER THAN +28 V DC.

PERMANENT DAMAGE WILL OCCUR IF CONNECTED TO GAS TUBE OUTPUT (MODULATOR MODEL 1175) OF NOISE FIGURE METER.

e subject to change without notice

NOISE SOURCE MODEL 125 B

Specifications

Frequency Range,GHz.....1.0-12.4
Excess Noise,dB.....15.5
Flatness,dB.....±0.5
VSWR.....1.3
Connector.....Type N
Length,mm,approx.....100
Input.....28V
Input Connector.....BNC

Calibration

Ser.no.....5100.....

Accuracy ±0.3dB

Frequency GHz	Excess Noise dB	Frequency GHz	Excess Noise dB
1.0	16.0	7.0	15.6
2.0	15.7	8.0	15.5
3.0	15.8	9.0	15.2
4.0	15.6	10.0	15.0
5.0	15.7	11.0	15.0
6.0	15.5	12.4	15.2

Operation

This noise source is intended for operation from a +28V supply. This can be either a pulse or DC voltage. It is primarily intended for operation together with Noise Figure Meter model 117 and shoul then be driven by the solid state noise modulator model 1178/11[illegible]. This modulator deliveres a 28V pulse to the noise source.
The excess noise compensator on model 117 should be set to the actual excess noise for the noise source.

A NOTE ON CONNECTORS

1. Make sure that mating connectors are correctly mounted (have correct dimensions, length of center pin etc).

2. When the noise source is used for production testing (i.e. when several connections and disconnections are made during the day) it is advisable to mount a coaxial adapter on the noise source in order to protect its output connector.
   The adapter should be a rigid piece with suitable connectors if maximum accuracy is wanted.

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